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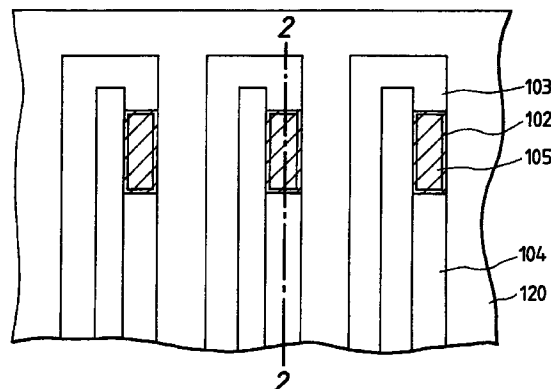
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(54) **Method for producing substrate for ink jet recording head, ink jet recording head and ink jet recording apparatus**

(57) A method for producing a substrate for an ink jet recording head comprises preparing a substrate with plural heat generating resistors for applying heat to the ink, plural wirings electrically connected thereto, and plural heat generating areas formed by the heat generating resistors exposed from the wirings, coating the heat generating resistors and the wirings on the substrate with a first insulating protective film, removing the first insulating protective film by wet etching in portions on the heat generating areas, and coating thus etched first insulating protective film with a second insulating protective film, wherein the etched portion of the first insulating protective film, in the longitudinal direction of the heat generating area, is positioned inside from the end of the heat generating area, by at least 1/2 of the thickness of the first and second insulating protective films covering the wirings.

The protective film is thus made thinner on the heat generating areas, thus reducing the electric power consumption while maintaining sufficient durability.

**FIG. 1**



**EP 0 698 494 A3**



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# EUROPEAN SEARCH REPORT

Application Number  
EP 95 11 3325

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	DE-A-34 43 564 (CANON KK) 5 June 1985 * page 19, line 16 - line 20 * * page 19, line 33 - page 20, line 5 * * page 30, line 15 - line 18 * * page 30, line 34 - page 31, line 1; figures 3B,3C *	1-11	B41J2/16
A	--- EP-A-0 390 338 (CANON KK) 3 October 1990 * column 8, line 19 - line 26; figure 7 * * column 8, line 39 - line 56; figure 9 * * column 11, line 45 - line 48; claim 12; figures 12,14 *	1-11	
A	--- EP-A-0 477 378 (CANON KK) 1 April 1992 * column 13, line 18 - line 36 * * column 14, line 13 - line 18 * * figure 1B *	1-11	
The present search report has been drawn up for all claims			<b>TECHNICAL FIELDS SEARCHED (Int.Cl.6)</b> B41J
Place of search THE HAGUE		Date of completion of the search 16 December 1996	Examiner Wehr, W
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document			

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